Message

From: Alvey, Robert [Alvey.Robert@epa.gov]

Sent: 9/18/2017 3:39:50 PM

To: Jason Pelton [jason.pelton@dec.ny.gov]

CC: Steve Terracciano [saterrac@usgs.gov]; Thantu, Lorenzo [Thantu.Lorenzo@epa.gov]; Henry Bokuniewicz

[henry.bokuniewicz@stonybrook.edu]; Nazrul Khandaker [nkhandaker@york.cuny.edu]; Metz, Chloe

[Metz.Chloe@epa.gov]; robalvey1@gmail.com

Subject: RE: DEC Drilling Operations Wantagh/Bethpage Soil/cuttings Samples

Hello Jason, (as well as Professors Bokuniewicz – Stony Brook and Khandaker- York CUNY)

I was able to get to 1025 Seamans Neck Road in Wantagh on Friday afternoon and fortunately the Delta Drillers were still there. The trailer has an excellent collection of cuttings from NYDEC Vertical Profile Boring 1. I didn't want to hold the drillers up for long, so only had time to split a few samples. They are in new zip log bags which I've labeled with NYDEC VBP 1, 9/15/2017, 1025 Seaman's Neck Rd and the depth below ground surface. I was mainly interested in the samples from what is the Raritan clay. The actual elevations will have to be obtained from the final borehole log, and the gamma log may also be informative.

VPB 1 728 fbgs small sample of mixture of med gray fine silt and sand, trace fine gravel. Loose, very wet (eyeballed)

VPB 1 938 fbgs small sample of mixture of dark gray fine sandy silt, trace fine gravel. Loose, very wet (eyeballed)

Not sure if the above 2 are from a screen catching material from mud rotary, as it may have drillers mud.

VPB 1 978-980 fbgs, 4" long section of split spoon, mottled red and gray clay, stiff

VPB 1 983-985 fbgs, collected from material stuck on split spoon, red with some gray mottling, clay, stiff

VPB 1 988-990 fbgs, 4" long section of split spoon, gray clay, stiff

I was also able to obtain a jar sample from: VPB 166, Poe Place and Wadsworth Ave in Bethpage. VPB 166, 743-745 fbgs, partial split spoon sample. Light gray clay, moist. Blow counts 5,10,15, 20 It has an unusual appearance along break that seems to resemble fine horizontal layering, but that might just be from the blows. This is well above Raritan. Above this is a thick formation of med coarse gravel, mostly quartz. The depositional history would be useful to know and it could be put in context with a growing understanding of the heterogeneity of LI stratigraphy. Again, the actual elevations, logs and gamma log will be available down the road. Henry B is studying elemental analysis too, with goal of extending towards off-shore Cretaceous. A bit hard to simply use a shovel to dig down 900+ feet to grab a sample. None of the samples were reported to be impacted.

I don't know whether York or Stony Brook can conduct a hydrometer test on the VPB 166 sample or the VBP 1 clay samples. A mineralogical analysis of both would help and I can get the samples to either university. Henry and Naz can let me know.

Thank you again for the courtesy everyone has extended. I hope to be back at work in about a month.

Regards Rob Alvey

From: Pelton, Jason M (DEC) [mailto:jason.pelton@dec.ny.gov] Sent: Thursday, September 14, 2017 11:00 AM To: Alvey, Robert < Alvey.Robert@epa.gov> Cc: Steve Terracciano <saterrac@usgs.gov>; Thantu, Lorenzo <Thantu.Lorenzo@epa.gov> Subject: RE: DEC Drilling Operations U.S. Navy/Northrop Grumman Contamination Plume Rob: I was listening to your vmail when the email arrived. No worries on delay. We are currently drilling at the Seaman's Neck Road location (DEC-VPB-1) for the installation of the groundwater monitoring wells. They will be on-site tomorrow. The VPB has been completed and abandoned. Because the wells are shallower, we could not construct them in the very deep borehole. We received approval from the Town Board Tuesday night for drilling at the DEC-VPB-2 location. We expect this to start in October. Ex. 6 Personal Privacy (medical) Thanks Jason From: Alvey, Robert [mailto:Alvey.Robert@epa.gov] Sent: Thursday, September 14, 2017 10:53 AM To: Pelton, Jason M (DEC) < jason.pelton@dec.ny.gov> Cc: Steve Terracciano <saterrac@usgs.gov>; Thantu, Lorenzo <Thantu.Lorenzo@epa.gov> Subject: RE: DEC Drilling Operations U.S. Navy/Northrop Grumman Contamination Plume ATTENTION: This email came from an external source. Do not open attochments or click on links from unknown senders or Hi Jason, Ex. 6 Personal Privacy (medical) I'll be at one of the Navy sites Friday Sorry for the considerable delay. morning, VPB 166 on Wadsworth Ave and Poe Place in Bethpage to pick up an interesting clay sample for the university. By any chance does NYSDEC have any remaining from Seamans Neck Road? Was also wondering if the rig was able to get permission from Town and started the new well on North Park Drive? Ex. 6 Personal Privacy (medical) Ex. 6 Personal Privacy (medical) Very much appreciate what you are doing, and please feel free to contact Lorenzo Thantu, our EPA RPM, if needed. Regards **Rob Alvey** From: Pelton, Jason M (DEC) [mailto:jason.pelton@dec.ny.gov] Sent: Wednesday, August 16, 2017 9:36 AM To: Alvey, Robert < Alvey.Robert@epa.gov >; Steve Terracciano < saterrac@usgs.gov > Cc: Jack Monti <jmonti@usgs.gov> Subject: RE: DEC Announces Drilling Operations Underway to Assess Containment Options for U.S. Navy/Northrop **Grumman Contamination Plume**

Rob:

Sorry for the delay. Was out of the office on Monday and tied up most of yesterday.

No problems with visiting the drilling locations.

We are currently drilling at 1025 Seamans Neck Road Wantagh, NY. Drilling at the second location has not yet begun as we are currently seeking approval from the Town of Oyster Bay to drill on Town property that is currently used as a stormwater recharge basin located on North Park Drive.

We do have samples from mostly 5-foot intervals on-site in large ziplock bags. You could probably take some materials from the bags as long as we still have representative volumes.

Don and I are actually heading down today and will likely be on-site tomorrow morning if that could work with your schedule? If you are going to go on another day, please just let me know which day so I can let the crew know.

Call me on my cell phone if you want. (Ex. 6 Personal Privacy (cell phone)

Thanks and call with any questions.

Jason

From: Alvey, Robert [mailto:Alvey.Robert@epa.gov]

Sent: Monday, August 14, 2017 8:49 AM

To: Steve Terracciano <saterrac@usgs.gov>; Pelton, Jason M (DEC) <jason.pelton@dec.ny.gov>

Cc: Jack Monti < jmonti@usgs.gov>

Subject: FW: DEC Announces Drilling Operations Underway to Assess Containment Options for U.S. Navy/Northrop

Grumman Contamination Plume

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Hello Jason/Steve

Could either of you give me a bit of information on this? I occasionally visit the other rigs by either Navy or Arcadis and would like to know where these ones are. Jason, do you have any objections to me stopping by the site? Helps to know the driller and field geologist.

Also, are there any jar or bag samples (not contaminated) that may be up for disposal that I could have for independent scientific studies? Stony Brook and York have inquired. They can do some mineralogical analyses.

Regards

Rob Alvey, P.G.

EPA